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**NONAQUEOUS SECONDARY BATTERY (2000-123867****Publication Number:** JP 2000123867 A) , April 28, 2000**Inventors:**

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**Applicants**

- HITACHI MAXELL LTD
- UBE IND LTD

**Application Number:** 10-297465 (JP 98297465) , October 20, 1998**International Class:**

- H01M-010/40
- H01M-004/02

**Abstract:**

**PROBLEM TO BE SOLVED:** To provide a nonaqueous secondary battery with high capacity and high cycle characteristics. **SOLUTION:** A nonaqueous secondary battery has a positive electrode 1, a negative electrode 2, and an electrolyte 4, a 4-V class active material is used in the positive electrode 1, discharge capacity per unit volume of an electrode laminate is 130 mAh/cm<sup>3</sup> or more, and cyclic ester having C=C unsaturated bond within the ring or its derivative is contained in the electrolyte 4. As the cyclic ester having C=C unsaturated bond within the ring or its derivative, for example, vinylene carbonate, coumarin, catechol carbonate, phthalide, an alkyl group substituted vinylene carbonate, or an alkyl group substituted catechol carbonate is preferable, and its content is preferable to be 0.05-8 wt.% based on the weight of the solvent component in the electrolyte. COPYRIGHT: (C)2000,JPO

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